

ELECTROMAGNETIC FLOWMETER

MTFEx-10



Catalogue card



DESCRIPTION

Electromagnetic flowmeter MTFEx-10 is design to measure the liquids flow in closed piping installations. Device measures the flow of clean and contaminated conductive liquids, aggressive and chemically inert liquids as well as conductive mixtures and pulps, e.g.:

- drinking water, sewage and sewage sludge, water in fire protection installations,
- acids, alkalies
- food liquids (milk, juice, beer, wine).

MTFEx-10 measures with a given accuracy class liquid flow with a linear speed from 0.1m/s to 10m/s in the standard version. The measurement is made in two directions: forward and backward. The flow meter is made in versions differing in the type of connection: flange, flange-less "wafer", process threaded R DIN, process clamp DIN. The flow meter is available in a compact version (transducer mounted directly on the sensor) and in a separate version (transducer connected to the sensor with cables).

Electromagnetic flowmeter MTFEx-10 is a device of M1 and 2G category and may thus be used in all underground mines with possible methane of coal dust explosion hazard. It can be used by the industry too.

BASIC TECHNICAL DATA

Electromagnetic flowmeter MTFEx-10

Power supply	Un = 10-16V
Current consumption (maximum)	In = 450mA
Switching-off output UW	Optopmos with a serial diode
Serial interface	RS485 (two-wire)
Analog output (active)*	4-20mA
Frequency output *	0÷1/5/10 kHz and 5÷15 Hz
Working temperature range	from -20°C to +60°C
Medium temperature range (maximum)	from -20°C to +80°C (compact version) from -20°C to +150°C (separate version)
Relative humidity range	from 0% to 95% without condensation
Ingress Protection	IP 67
Driver box dimensions	120x122x90 (without connectors)
Electrode materials	stainless steel (standard) C-386 (HASTELLOY), Tantalum, Titanium, Monel (option)
Measuring tube diameters (DN)	50-500 mm

EXPLOSION-PROOF MARK

⊕ I M1 Ex ia I Ma

⊕ II 2G Ex ia IIB T4 Gb

UE-TYPE EXAMINATION CERTIFICATE: JSHP 19 ATEX 0005